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STATISTICAL SUPPLEMENT

to

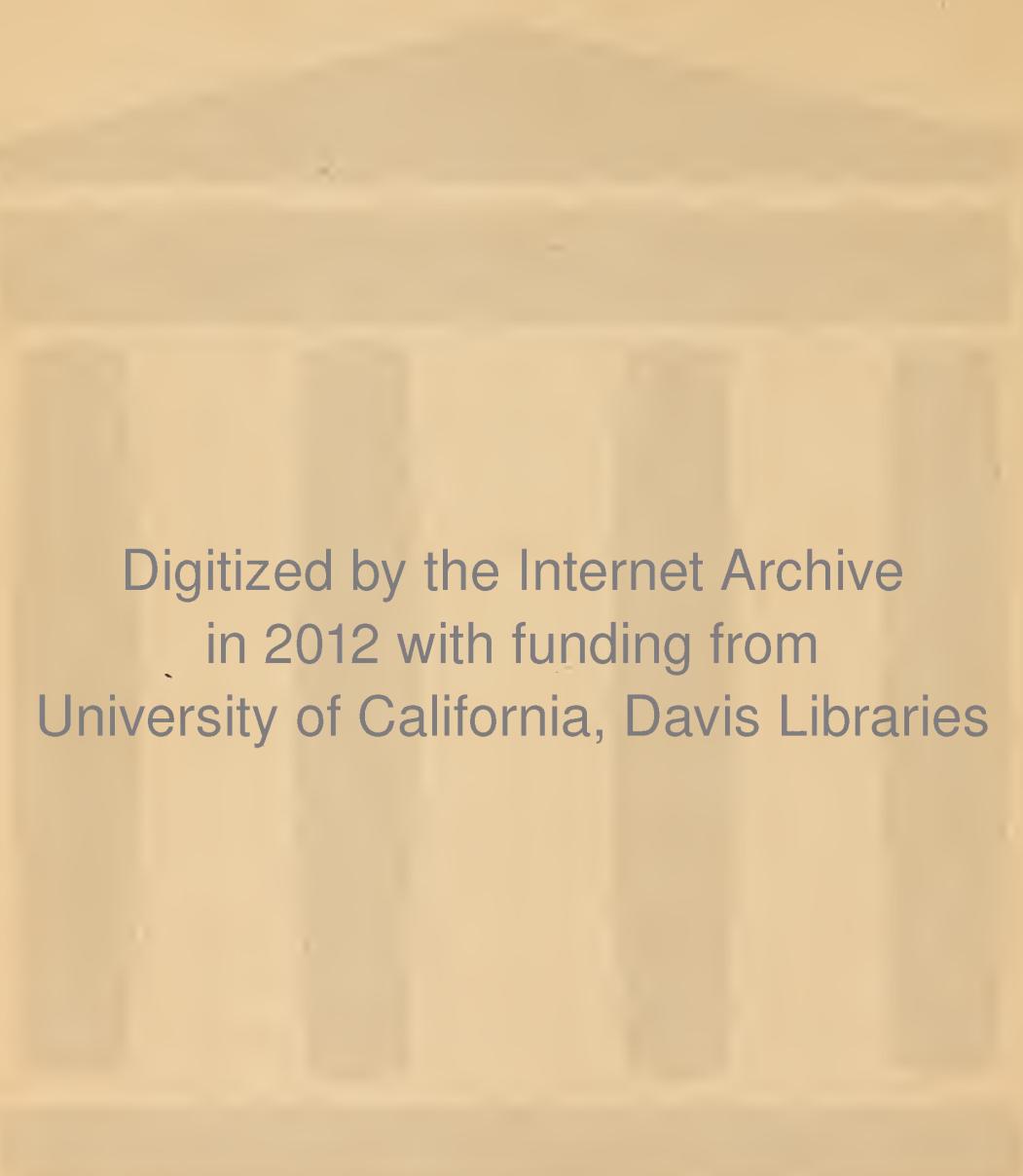
Agricultural Experiment Station Circular 393

CALIFORNIA SPINACH, ECONOMIC STATUS, 1948-49

by

Sidney Hoos and P. C. Habib

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Contribution from the  
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 California Spinach, Economic Status 1948-49  
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 Sidney Hoos<sup>1/</sup> and P. C. Habib<sup>2/</sup>

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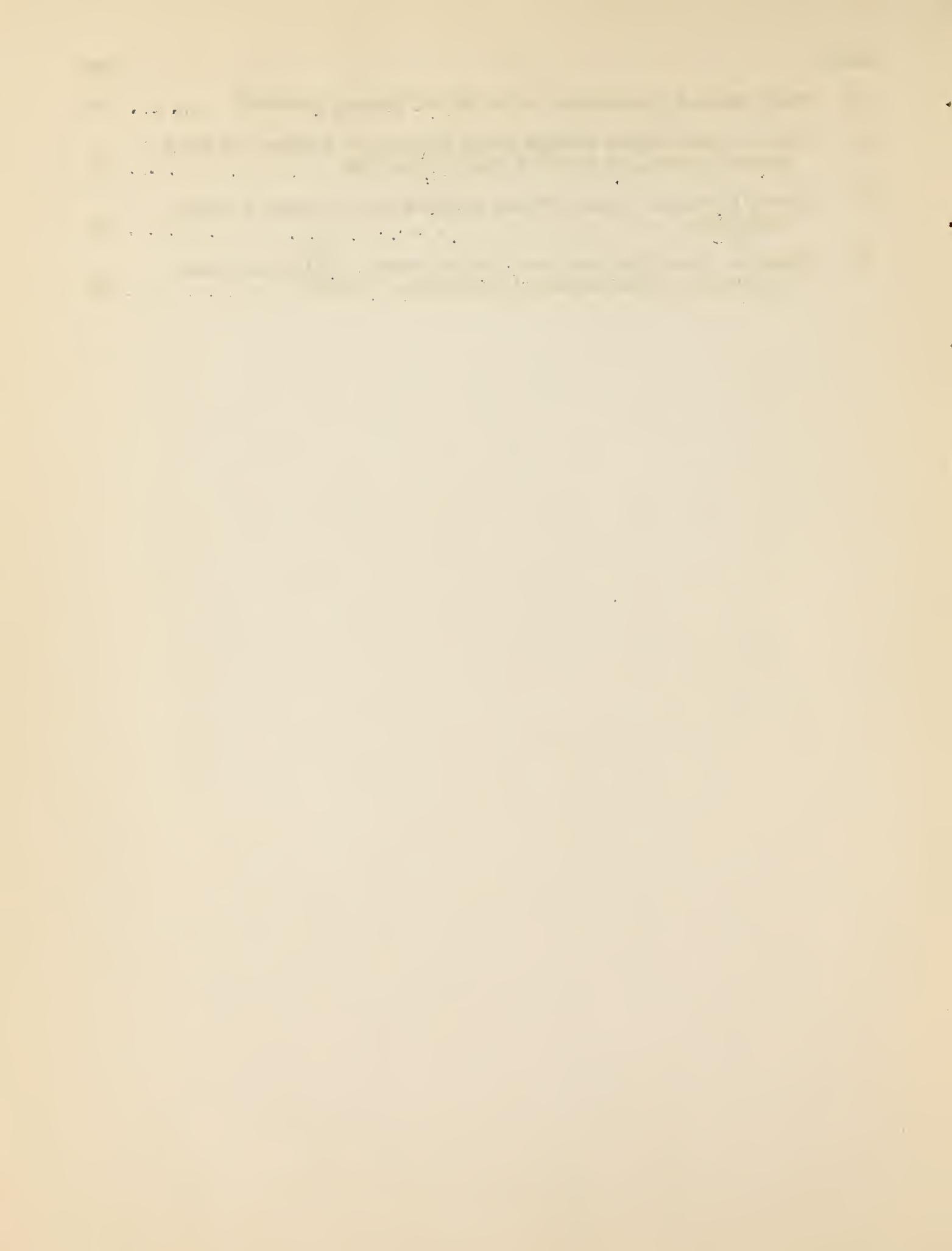


TABLE 1

Fresh Market Spinach Production in the United States by Seasonal Groups and Selected States  
1918-1948

Seasonal group	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
	Thousands of bushels <sup>a/</sup>											
<b>Winter:</b>												
California	525	662	654	661	1,064	1,065	1,836	905	1,312	1,520	753	1,085
Texas	577	1,560	1,686	2,105	2,299	2,549	2,740	4,751	5,130 <sup>b/</sup>	6,457 <sup>b/</sup>	5,120	8,595 <sup>b/</sup>
Louisiana	-- <sup>c/</sup>	--	--	--	--	--	--	200	170	182	225	200
North Carolina	--	--	--	--	--	--	--	--	--	80	48	28
South Carolina	--	--	--	--	119	280	150	352	411	315	180	72
Group total	1,102	2,222	2,340	2,766	3,482	3,894	4,726	6,208	7,023	8,554	6,326	9,980
Spring	1,287	765	991	1,759	1,259	1,950	2,093	2,265	2,511	2,272	2,458	2,766
Summer	--	--	--	--	--	26	32	74	57	96	186	1,021
Early Fall	--	100	285	344	519	658	679	553	614	706	984	1,241
Late Fall	336	315	303	660	858	988	960	720	938	1,488	1,236	1,102
Total United States	2,725	3,402	3,919	5,529	6,118	7,516	8,490	9,820	11,143	13,116	11,190	16,110
<b>1930</b>												
	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	
<b>Winter:</b>												
California	1,260	1,375	1,318	1,376	1,718	2,075	1,732	1,704	1,526	1,830	1,648	1,695
Texas	5,889	7,074	6,468	5,720	6,035	3,780	6,000	6,440	4,800	5,956	4,644	4,956
Louisiana	100	105	102	126	142	102	112	110	138	148	117	120
North Carolina	19	16	18	--	--	--	--	--	--	--	--	--
South Carolina	88	80	30	20	40	40	40	30	40	--	--	--
Group total	7,356	8,650	7,936	7,242	7,935	5,997	7,964	8,284	6,504	6,934	6,409	6,771
Spring	2,603	3,199 <sup>b/</sup>	2,470 <sup>b/</sup>	2,704	2,305	2,959	3,102	3,205	3,157	3,255	3,565 <sup>b/</sup>	2,565
Summer	1,088	1,297	1,229	1,279	1,347	1,506	1,591	1,892	1,891	1,702	1,612	1,816
Early Fall	980	1,293	1,692	1,492	1,751	1,477	1,564	1,609	1,689	1,678 <sup>b/</sup>	1,811	1,124
Late Fall	120	297	550	324	706	942	1,375	1,535	1,250	776	923	427
Total United States	12,147	14,736	13,877	13,041	14,044	12,881	15,596	16,525	14,491	14,345	14,320	13,003

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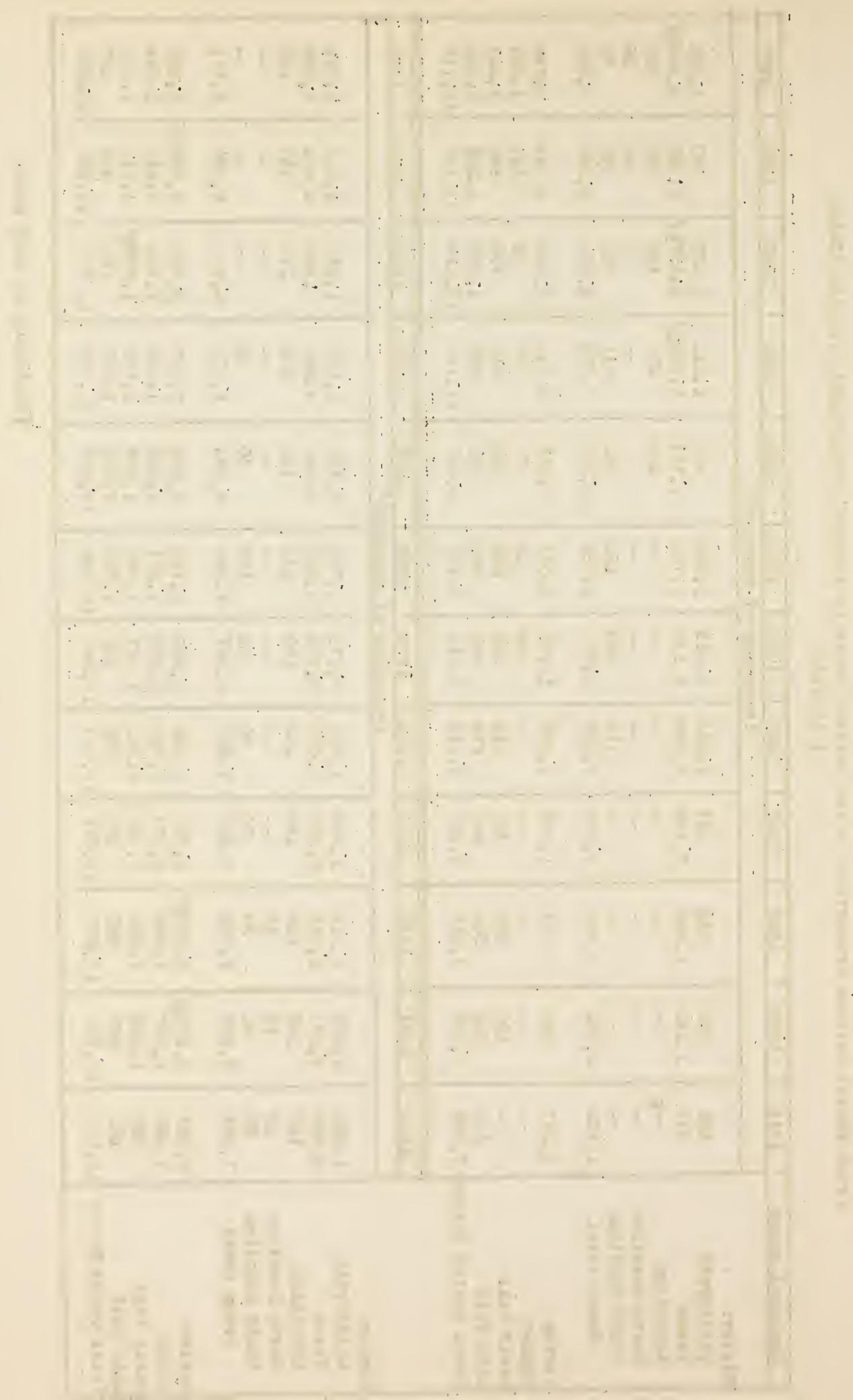


Table 1 continued.

Seasonal group	1942	1943	1944	1945	1946	1947	1948
	thousands of bushels <sup>a/</sup>						
<b>Winter:</b>							
California	1,342	1,520	1,570	1,449	1,562	1,501	1,656
Texas	6,495	5,122	6,148 <sup>b/</sup>	5,220	4,560	4,128	4,160 <sup>b/</sup>
Louisiana	100	75	70	68	63	52	49
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Group total	7,937	6,717	7,788	6,737	6,185	5,681	5,865
<b>Spring</b>							
	2,829	3,451	3,387 <sup>b/</sup>	3,003	3,045	2,766 <sup>b/</sup>	2,680 <sup>b/</sup>
Summer	1,732	2,131	1,856	2,346	2,351 <sup>b/</sup>	1,604 <sup>b/</sup>	1,702 <sup>b/</sup>
Early Fall	1,785	1,917	1,067	1,600	1,562	1,675	1,955
Late Fall	535	716	756	724	640	515	442
Total United States	14,618	14,932	14,854	14,410	13,783	12,241	12,644

<sup>a/</sup> Bushels containing approximately 18 pounds.<sup>b/</sup> Includes some quantities not marketed.<sup>c/</sup> Data not available.

Sources of data:

Fresh market:

- 1918-1927: U.S. Bureau of Agricultural Economics. Estimates of Acreage, Production and Value, 1918-1927, Washington, D.C. February 1944.
- 1928-1938: U.S. Bureau of Agricultural Economics. Revised Estimates of Acreage, Production and Value, 1928-1941, Washington, D.C. October 1943.
- 1939-1945: U.S. Bureau of Agricultural Economics. Commercial Truck Crops for Fresh Market - Acreage, Production and Value, 1939-1945. Washington, D.C. June 1947.
- 1946: U.S. Bureau of Agricultural Economics. Commercial Truck Crops for Fresh Market. Washington, D.C. December 17, 1947.
- 1947-48: U.S. Bureau of Agricultural Economics. Commercial Truck Crops for Fresh Market. Washington, D.C. December 1948.

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Table 1 continued.

Process market:			
1919-1927:	U.S. Bureau of Agricultural Economics.	Commercial Truck Crops for Processing, 1919-1927.	Washington, D.C.
	March 1946.		
1928-1938:	U.S. Bureau of Agricultural Economics.	Truck Crops for Commercial Processing, 1928-1941.	Washington, D.C.
	April 1944.		
1939-1945:	(Same as for fresh market)		
1946:	U.S. Bureau of Agricultural Economics.	Truck Crops for Commercial Processing, 1947 with comparisons.	
	Washington, D.C. December 17, 1947.		
1947-48:	U.S. Bureau of Agricultural Economics.	Truck Crops for Commercial Processing, 1948 with comparisons.	
	Washington, D.C. December 17, 1948.		



TABLE 2

Spinach Production for Processing in the United States  
by States<sup>a</sup>  
1919-1948

Year	California	Texas	Maryland	Virginia	Arkansas	Oklahoma	Total United States
thousand tons							
1919	15.5		3.1				18.6
1920	15.9		6.3				22.2
1921	23.9		6.4				30.3
1922	29.4		9.7				39.1
1923	48.1		6.7				54.8
1924	41.4		7.4				48.8
1925	29.1		6.2				35.3
1926	46.0		6.9				52.9
1927	51.5		5.6				57.1
1928	65.4		7.8				73.2
1929	90.0		6.9				96.9
1930	36.0		2.4				38.4
1931	28.7		6.0				34.7
1932	16.6		3.9				20.5
1933	32.0		4.0				36.0
1934	37.6		3.7				41.3
1935	48.3		5.0				53.3
1936	41.5	7.0	1.4		3.0	10.5	63.4
1937	43.5	10.4	2.7		3.4	4.8	64.8
1938	20.8	9.6	3.4	3.7	1.9	2.9	42.3
1939	27.5	9.0	7.4	6.2	1.7	1.6	53.4
1940	19.1	5.6	3.1	4.7	1.8	9.4	43.7
1941	22.3	7.6	.3	10.1	1.9	2.7	44.9
1942	52.6	8.8	4.2	9.4	14.2	25.2	114.4
1943	34.7	6.0	1.6	1.9	16.7	21.1	82.0
1944	49.4	9.0	1.9	1.1	20.1	25.4	106.9
1945	48.0	8.2	3.7	1.5	15.3	12.6	89.3
1946	50.6	6.0	3.0	3.0	14.1	11.7	88.4
1947	28.4	7.5	.5	2.2	9.3	7.6	55.5
1948	23.0	7.6	1.5	1.5	10.8	4.5	48.9

a/ From 1919 to 1935, estimates of production for processing include only California and Maryland. Estimates for Arkansas, Oklahoma, and Texas were added in 1936 and the estimate for Virginia was added in 1938. All other production for processing is included in the fresh market data.

Source of data: See sources listed in table 1.

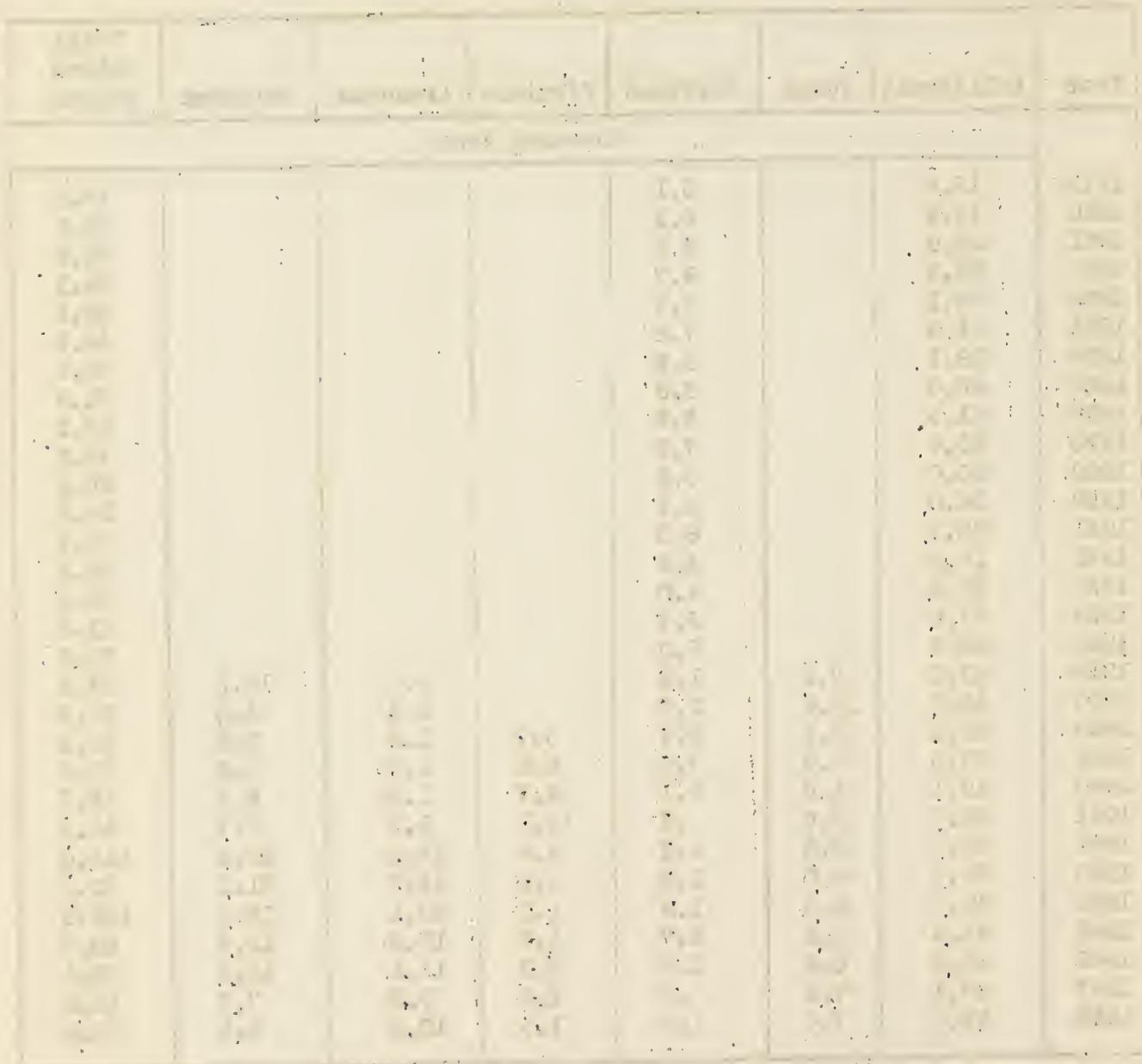


TABLE 3

Total Spinach Production - United States, California  
and All States Except California  
In Thousands of Bushels and Tons, 1918-1948

Calendar year	United States	California	All states except California	United States	California	All states except California
			3			6
	thousand bushels		tons			
1918	2,725 <sup>a/</sup>	525 <sup>a/</sup>	2,200 <sup>a/</sup>	24,525	4,725	19,800
1919	5,468	2,384	3,084	49,218	21,458	27,760
1920	6,385	2,420	3,965	57,471	21,786	35,685
1921	8,895	3,316	5,579	80,061	29,849	50,212
1922	10,462	4,330	6,132	94,162	38,976	55,186
1923	13,604	6,409	7,195	122,444	57,685	64,759
1924	13,912	6,436	7,476	125,210	57,924	67,286
1925	13,742	4,138	9,604	123,680	37,245	86,435
1926	17,021	6,423	10,598	153,187	57,803	95,384
1927	19,460	7,242	12,218	175,144	65,180	109,964
1928	19,323	8,019	11,304	176,910	72,177	104,733
1929	26,876	11,084	15,792	241,890	99,765	142,125
1930	16,414	5,260	11,154	147,723	47,340	100,383
1931	18,592	4,564	14,028	167,324	41,075	126,249
1932	16,154	3,162	12,992	145,393	28,462	116,931
1933	17,040	4,931	12,109	153,369	44,384	108,985
1934	18,632	5,895	12,737	167,696	53,062	114,634
1935	18,803	7,441	11,362	169,229	66,975	102,254
1936	22,641	6,343	16,298	203,764	57,088	146,676
1937	23,724	6,537	17,187	213,525	58,836	154,689
1938	19,191	3,837	15,354	172,719	34,534	138,185
1939	20,278	4,885	15,393	182,505	43,970	138,535
1940	19,174	3,770	15,404	172,580	33,932	138,648
1941	17,991	4,173	13,818	161,927	37,555	124,372
1942	27,529	7,186	20,343	247,762	64,678	183,084
1943	24,042	5,375	18,667	216,388	48,380	168,008
1944	26,730	7,058	19,672	240,586	63,530	177,056
1945	24,332	6,782	17,550	218,990	61,041	157,949
1946	23,605	7,184	16,421	212,447	64,658	147,789
1947	18,408	4,657	13,751	165,669	41,909	123,760
1948	18,077	4,212	13,865	162,696	37,904	124,792

<sup>a/</sup> Fresh market production only, available for 1918.

Source of data: Tables 1 and 2.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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TABLE 4

Commercial Acreage of Spinach in the United States  
and in Selected States  
1918-1948

Calendar year	United States	California	Texas	Louisiana
	1	2	3	4
	in acres			
1918	Fresh	7,250	630	2,120
	Process	-- <sup>a/</sup>	--	--
	Total	7,250	630	2,120
1919	Fresh	9,250	750	4,800
	Process	4,130 <sup>b/</sup>	3,170	--
	Total	13,380	3,920	4,800
1920	Fresh	10,890	800	5,620
	Process	4,850	2,950	--
	Total	15,740	3,750	5,620
1921	Fresh	16,930	740	8,320
	Process	7,800	5,320	--
	Total	24,730	6,060	8,320
1922	Fresh	17,350	1,130	8,210
	Process	8,360	5,660	--
	Total	25,710	6,790	8,210
1923	Fresh	21,670	1,420	9,440
	Process	10,570	8,290	--
	Total	32,040	9,710	9,440
1924	Fresh	22,300	2,130	8,700
	Process	10,470	8,290	--
	Total	32,770	10,420	8,700
1925	Fresh	29,530	1,810	14,440
	Process	11,890	9,690	--
	Total	41,420	11,500	14,440
1926	Fresh	33,210	1,750	16,820
	Process	11,510	9,590	--
	Total	44,720	11,340	16,820
1927	Fresh	38,400	1,900	19,450
	Process	12,150	10,300	--
	Total	50,550	12,200	19,450
1928	Fresh	45,300	1,000	25,600
	Process	14,640	12,340	--
	Total	59,940	13,340	25,600

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Table 4 continued.

Calendar year	United States				
		California	Texas	Louisiana	
		1	2	3	
in acres					
1929	Fresh	53,690	1,400	28,650	2,000
	Process	18,170	15,790	--	--
	Total	71,860	17,190	28,650	2,000
1930	Fresh	46,130	1,550	25,060	1,990
	Process	9,350	8,370	--	--
	Total	55,480	9,920	25,060	1,990
1931	Fresh	51,870	1,700	27,850	1,500
	Process	7,850	5,850	--	--
	Total	59,720	7,550	27,850	1,500
1932	Fresh	52,570	1,830	30,800	1,200
	Process	5,540	4,040	--	--
	Total	58,110	5,870	30,800	1,200
1933	Fresh	66,920	1,690	44,000	1,200
	Process	10,100	8,200	--	--
	Total	77,020	9,890	44,000	1,200
1934	Fresh	60,970	2,220	35,500	1,500
	Process	15,290	13,420	--	--
	Total	76,260	15,640	35,500	1,500
1935	Fresh	61,970	2,300	36,000	1,200
	Process	15,180	13,410	--	--
	Total	77,150	15,710	36,000	1,200
1936	Fresh	81,520	2,170	48,000	1,100
	Process	27,020	12,970	6,400	--
	Total	108,540	15,140	54,400	1,100
1937	Fresh	75,740	2,400	46,000	1,100
	Process	29,720	16,720	8,000	--
	Total	105,460	19,120	54,000	1,100
1938	Fresh	70,090	2,800	40,000	1,200
	Process	22,420	9,470	8,000	--
	Total	92,510	12,270	48,000	1,200
1939	Fresh	63,750	3,000	35,400	1,350
	Process	19,860	7,860	6,000	--
	Total	83,610	10,860	41,400	1,350

(Continued on next page)



Table 4 continued.

Calendar year	United	California	Texas	Louisiana	
	States				
	1	2	3	4	
in acres					
1940	Fresh	64,900	3,200	34,400	1,350
	Process	21,340	9,540	3,500	--
	Total	86,240	12,740	37,900	1,350
1941	Fresh	63,050	3,000	35,400	1,250
	Process	19,940	7,440	4,500	--
	Total	82,990	10,440	39,900	1,250
1942	Fresh	70,780	3,050	43,300	1,150
	Process	46,240	15,040	5,500	--
	Total	117,020	18,090	48,800	1,150
1943	Fresh	74,150	3,800	39,400	1,000
	Process	39,030	9,130	4,000	--
	Total	113,180	12,930	43,400	1,000
1944	Fresh	73,350	3,450	42,400	1,000
	Process	44,100	11,480	6,000	--
	Total	117,450	14,930	48,400	1,000
1945	Fresh	66,220	4,200	36,000	900
	Process	35,960	10,220	5,500	--
	Total	102,180	14,420	41,500	900
1946	Fresh	67,450	4,400	38,000	900
	Process	36,020	10,990	5,000	--
	Total	103,470	15,390	43,000	900
1947	Fresh	61,980	4,350	34,400	800
	Process	24,060	6,460	5,000	--
	Total	86,040	10,810	39,400	800
1948	Fresh	59,460	4,600	32,000	700
	Process	21,550	4,800	4,500	--
	Total	81,010	9,400	36,500	700

a/ Data not available.

b/ From 1919 to 1935, acres for processing include only California and Maryland. Estimates for Arkansas, Oklahoma, and Texas were added in 1936 and the estimate for Virginia was added in 1938. All other acres for processing are included in fresh market data.

Source of data: See sources listed in table 1.

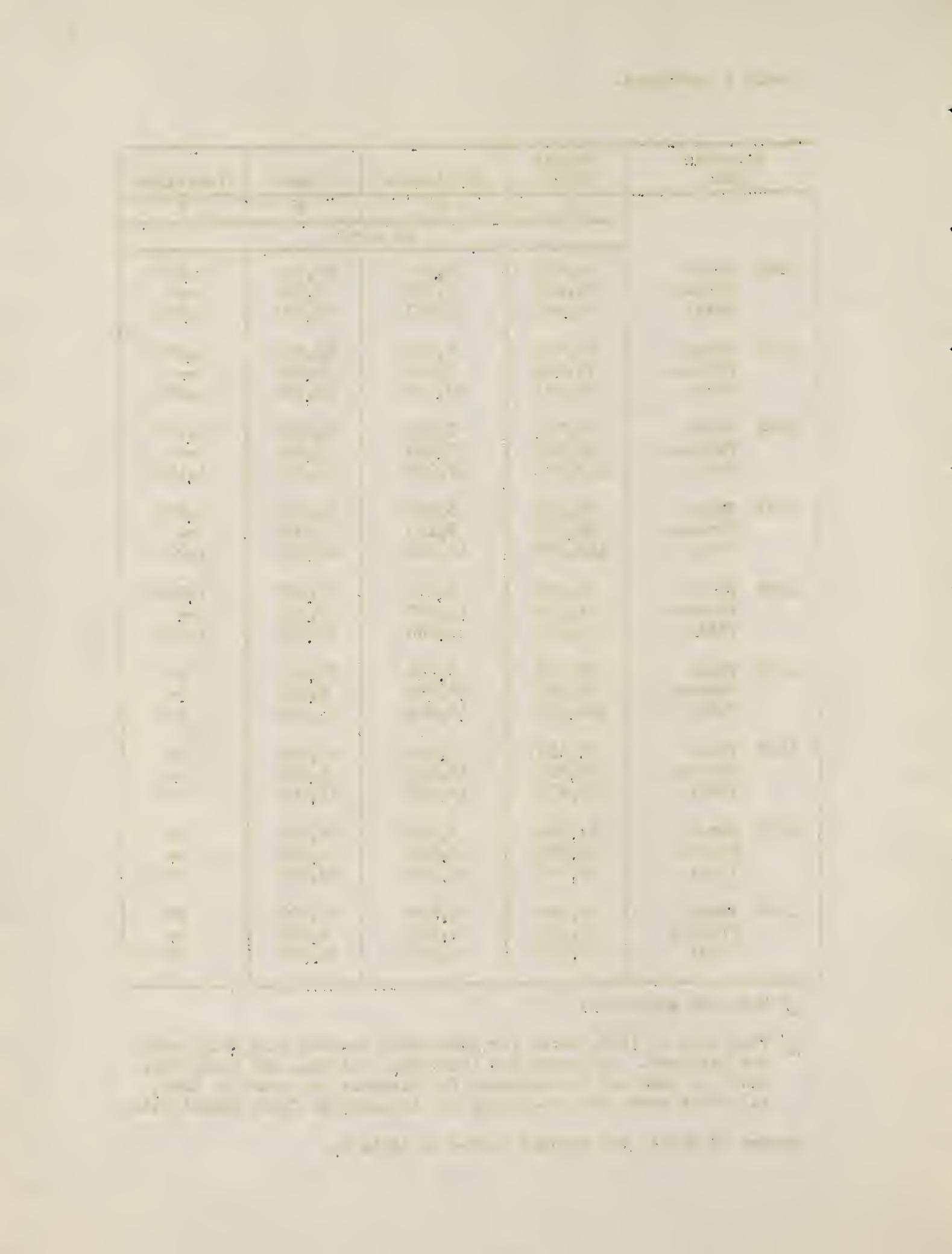


TABLE 5

Commercial Acreage of Fresh Market Spinach in the United States, by Seasonal Groupings<sup>a/</sup>, 1918-1948

Calendar year	Winter	Spring	Summer	Early fall	Late fall	Total United States
	1	2	3	4	5	6
in acres						
1918	2,750	3,300			1,200	7,250
1919	5,550	2,550		250	900	9,250
1920	6,420	2,950		700	820	10,890
1921	9,060	4,700		970	2,200	16,930
1922	9,900	3,630		1,220	2,600	17,350
1923	11,860	5,400	70	1,740	2,600	21,670
1924	12,330	5,190	80	1,700	3,000	22,300
1925	19,250	6,320	180	1,380	2,400	29,530
1926	21,570	6,940	150	1,790	2,760	33,210
1927	24,220	7,520	240	2,420	4,000	38,400
1928	29,470	8,100	660	2,950	4,120	45,300
1929	32,560	10,080	2,680	4,570	3,800	53,690
1930	28,930	10,000	2,810	3,590	800	46,130
1931	31,530	10,200	3,040	5,300	1,800	51,870
1932	34,110	7,840	3,270	5,150	2,200	52,570
1933	46,990	9,620	3,360	5,100	1,850	66,920
1934	39,420	8,200	3,380	6,570	3,400	60,970
1935	39,700	9,220	3,920	4,830	4,300	61,970
1936	51,870	13,530	4,570	6,550	5,000	81,520
1937	49,700	10,850	4,390	5,700	5,100	75,740
1938	44,200	10,690	4,700	6,300	4,200	70,090
1939	39,750	10,780	4,370	5,450	3,400	63,750
1940	38,950	11,410	4,840	6,300	3,400	64,900
1941	39,650	9,810	4,940	6,700	1,950	63,050
1942	47,500	9,850	5,200	6,050	2,450	70,780
1943	44,200	11,990	6,250	8,260	3,450	74,150
1944	46,850	12,110	6,270	5,050	3,070	73,350
1945	41,100	9,860	6,570	5,990	2,700	66,220
1946	43,300	9,790	6,340	5,570	2,450	67,450
1947	39,550	9,430	4,900	6,100	2,000	61,980
1948	37,300	8,750	5,010	6,600	1,800	59,460

<sup>a/</sup> Seasonal groupings are on a basis of the season during which the crop is harvested.

Source of data: See sources listed in table 1.

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TABLE 6

Total Spinach Acreage in the United States and Selected States  
1918-1948

Calendar year	United States	California	Texas	Virginia	Maryland	All states except California
	1	2	3	4	5	6
acres						
1918	7,250 <sup>a/</sup>	630	2,120	4,500	--	6,620
1919	13,380	3,920	4,800	3,450	1,210	9,460
1920	15,740	3,750	5,620	3,570	2,400	11,990
1921	24,730	6,060	8,320	6,400	3,300	18,670
1922	25,710	6,790	8,210	5,900	3,600	18,920
1923	32,040	9,710	9,440	7,100	3,200	22,330
1924	32,770	10,420	8,700	6,700	3,350	22,350
1925	41,420	11,500	14,440	6,300	3,500	29,920
1926	44,720	11,340	16,820	6,960	3,200	33,380
1927	50,550	12,200	19,450	8,700	3,090	38,350
1928	59,940	13,340	25,600	7,820	3,800	46,600
1929	71,860	17,190	28,650	8,400	4,480	54,670
1930	55,480	9,920	25,060	4,700	1,600	45,560
1931	59,720	7,550	27,850	5,300	3,700	52,170
1932	58,110	5,870	30,800	4,200	3,140	52,240
1933	77,020	9,890	44,000	5,450	3,140	67,130
1934	76,260	15,640	35,500	4,800	3,140	60,620
1935	77,150	15,710	36,000	5,430	3,200	61,440
1936	108,540	15,140	54,400	6,400	2,800	93,400
1937	105,460	19,120	54,000	6,400	2,900	86,340
1938	92,510	12,270	48,000	7,900	3,100	80,240
1939	83,610	10,860	41,400	8,100	3,150	72,750
1940	86,240	12,740	37,900	8,100	2,950	73,500
1941	82,990	10,440	39,900	7,500	3,000	72,550
1942	117,020	18,090	48,800	6,800	3,000	98,930
1943	113,180	12,930	43,400	5,600	2,800	100,250
1944	117,450	14,930	48,400	4,770	2,200	102,520
1945	102,180	14,420	41,500	3,800	2,800	87,760
1946	103,470	13,990	43,000	4,800	1,170	89,480
1947	86,040	10,810	39,400	3,600	1,650	75,230
1948	81,010	9,400	36,500	3,000	2,000	71,610

<sup>a/</sup> See footnotes 1 and 2 in table 5.

Source of data: See sources listed in table 1.



TABLE 7

Distribution of Spinach Acreage Harvested in California by Counties, 1928-1947  
In Acres and Per Cent of State Total

Year	Alameda	Monterey	Santa Clara	Sacramento	Yolo	San Joaquin	Stanislaus	Tulare	Los Angeles	All other counties	Total
1928 Acres	1,997	457	2,891	2,270	263	1,068	859	605	925	2,008	13,343
Per cent	14.97	3.43	21.67	17.01	1.97	8.00	6.44	4.53	6.93	15.04	
1929 Acres	2,562	632	3,059	2,201	835	1,443	1,029	832	790	3,801	17,184
Per cent	14.91	3.68	17.80	12.81	4.86	8.40	5.99	4.84	4.60	22.11	
1930 Acres	1,834	238	2,216	978	523	837	547	50	295	1,699	9,217
Per cent	19.90	2.58	24.04	10.61	5.67	9.08	5.93	.54	3.20	18.43	
1931 Acres	1,473	245	1,779	1,090	113	484	468	--	250	952	6,854
Per cent	21.49	3.57	25.96	15.90	1.65	7.06	6.83	--	3.65	13.88	
1932 Acres	739	200	935	485	422	382	360	--	379	1,067	4,969
Per cent	14.87	4.02	18.82	9.76	8.49	7.69	7.24	--	7.63	21.46	
1933 Acres	1,119	556	1,864	955	692	773	666	250	695	1,728	9,298
Per cent	12.03	5.98	20.05	10.27	7.44	8.31	7.16	2.69	7.47	18.61	
1934 Acres	1,809	1,399	2,865	1,934	652	1,664	886	367	1,026	2,113	14,715
Per cent	12.29	9.51	19.47	13.14	4.43	11.31	6.02	2.49	6.97	14.37	
1935 Acres	2,344	667	3,109	1,978	590	1,612	1,315	1.30	1,387	1,960	15,092
Per cent	15.53	4.42	20.60	13.11	3.91	10.68	8.71	.86	9.19	12.98	
1936 Acres	2,496	100	3,619	1,915	554	1,949	1,288	167	1,127	1,700	14,915
Per cent	16.73	.67	24.26	12.84	3.71	13.07	8.64	1.12	7.56	11.43	
1937 Acres	2,192	636	4,298	1,810	982	2,545	1,716	337	1,574	3,026	19,116
Per cent	11.47	3.33	22.48	9.47	5.14	13.31	8.98	1.76	8.23	15.81	

(Continued on next page.)

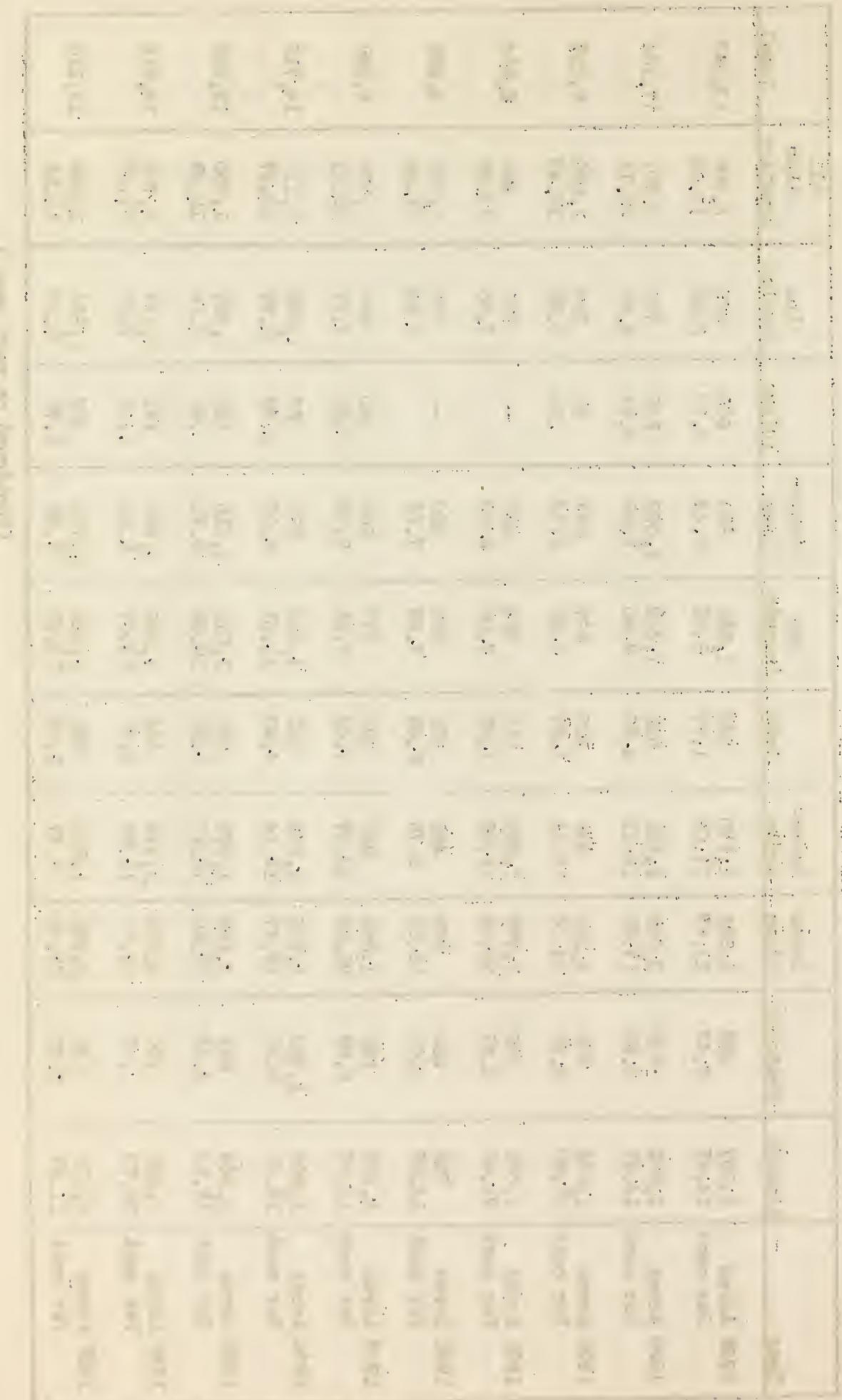


Table 7 continued.

Year	Alameda	Monterey	Santa Clara	Sacramento	Yolo	San Joaquin	Stanislaus	Tulare	Los Angeles	All other counties	Total
1938 Acres Per cent	1,338 10.91	100 .82	2,051 16.72	1,203 10.54	821 6.69	900 7.34	1,030 8.40	466 3.80	1,725 14.06	2,542 20.75	12,266
1939 Acres Per cent	1,175 10.82	150 1.38	1,715 15.80	1,499 13.81	618 5.69	851 7.84	752 6.93	645 5.94	1,509 13.90	1,941 17.87	10,855
1940 Acres Per cent	1,524 11.96	150 1.18	2,275 17.86	863 6.78	1,490 11.70	693 5.44	636 4.99	795 6.24	1,642 12.89	2,670 20.96	12,738
1941 Acres Per cent	391 3.74	660 6.32	962 9.21	421 4.03	387 3.71	956 9.15	954 9.14	1,071 10.26	1,500 14.36	3,141 30.09	10,443
1942 Acres Per cent	687 3.80	2,272 12.56	1,921 10.62	921 5.09	678 3.75	1,896 10.48	1,427 7.89	1,502 8.30	1,865 10.31	4,924 27.22	18,093
1943 Acres Per cent	560 4.33	967 7.48	777 6.01	665 5.14	737 5.70	1,249 9.66	1,129 8.73	1,182 9.14	2,895 8.30	2,770 22.39	12,931
1944 Acres Per cent	374 2.50	1,807 12.10	1,121 7.51	654 4.38	380 2.54	1,646 11.02	1,449 9.70	742 4.97	2,824 18.91	3,936 26.33	14,933
1945 Acres Per cent	260 1.80	1,962 13.61	656 4.55	559 3.88	333 2.31	2,198 15.24	1,329 9.22	813 5.64	2,895 20.07	3,416 23.69	14,421
1946 Acres Per cent	130 .84	2,928 19.03	510 5.10	784 1.13	746 4.85	1,768 11.49	1,603 10.42	1,040 6.76	3,372 21.91	2,842 18.46	15,387
1947 Acres Per cent	100 .92	2,626 24.29	414 3.83	150 1.39	241 2.23	932 8.62	1,094 10.12	585 5.41	2,610 24.14	2,059 19.01	10,811

Source of data: California Crop and Livestock Reporting Service. Vegetable Crops in California. Annual publications 1928-1947. Sacramento, California.

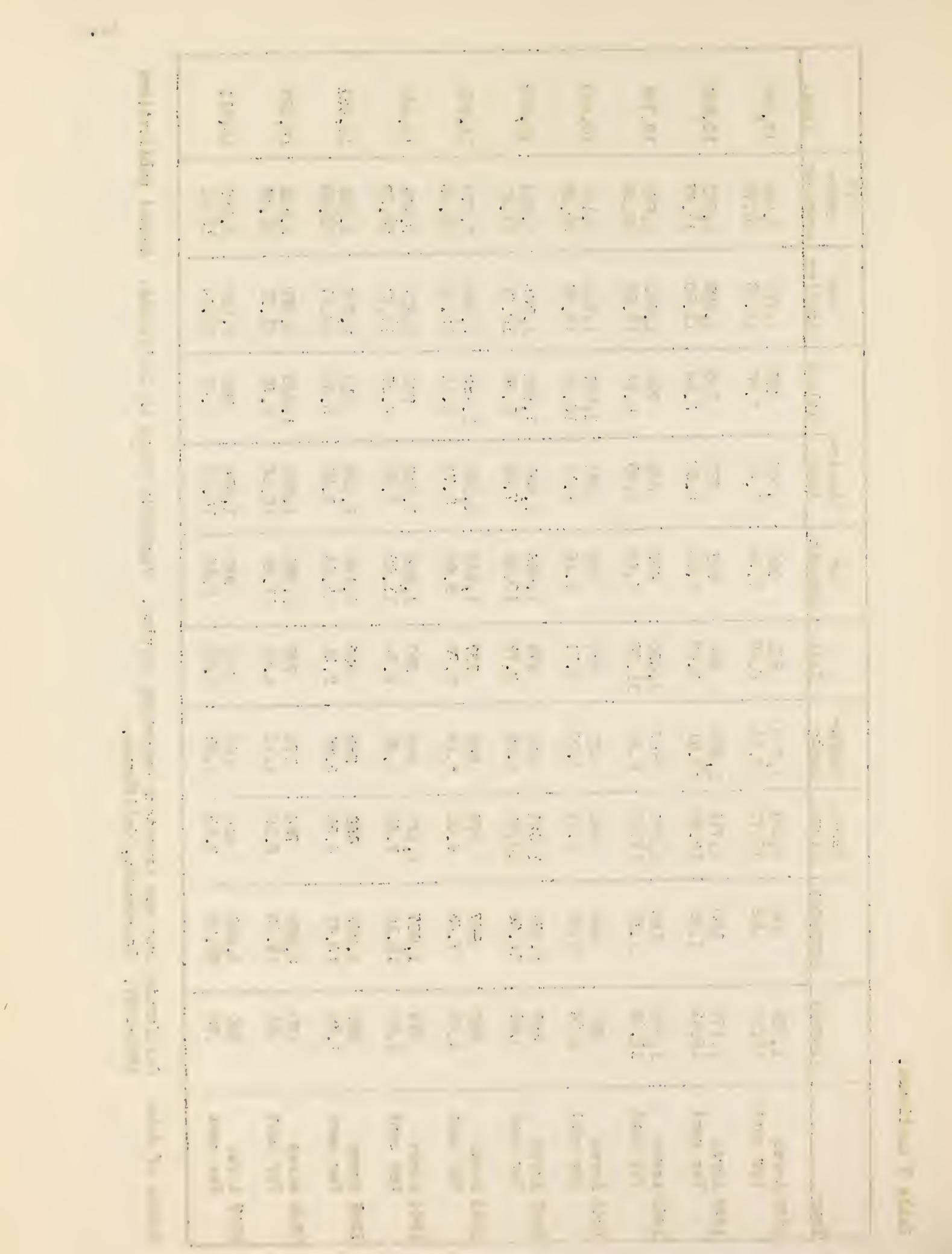


TABLE 8

Yield Per Acre of Spinach  
United States Average, California and Texas  
1918-1948

Calendar year	United States	California	Texas
		1	2
	<u>bushels<sup>a</sup>/per acre</u>		
1918	376	833	272
1919	409	608	325
1920	406	645	300
1921	360	547	253
1922	407	638	280
1923	425	660	270
1924	425	617	315
1925	332	360	329
1926	381	566	305
1927	385	594	332
1928	322	601	200
1929	374	645	300
1930	296	530	235
1931	321	605	254
1932	278	539	210
1933	221	499	130
1934	244	377	170
1935	244	474	105
1936	209	419	125
1937	225	342	141
1938	207	313	122
1939	243	450	144
1940	222	296	139
1941	217	400	145
1942	235	397	153
1943	212	416	133
1944	228	473	148
1945	238	470	148
1946	228	514	122
1947	214	431	126
1948	223	448	137

a/ Bushels containing approximately 18 pounds.

Source of data: Average yield per acre was derived by dividing total production by total acreage. These data were secured from tables 1, 2 and 6. Sources of original data are given in table 1.



TABLE 9

Utilization of United States Spinach Production  
1933-1948

Calendar year	United States total productiona/ 1	Utilization		
		Fresh	Canned	Frozen
		thousands of poundsb/ 2		
1933	306,738	227,261	79,477	c/
1934	335,392	245,339	90,053	--
1935	338,458	230,508	107,950	--
1936	407,528	303,949	103,579	--
1937	427,050	265,771	153,401	7,878
1938	345,438	266,501	72,078	6,859
1939	364,910	258,075	100,012	6,823
1940	345,122	213,644	124,053	7,425
1941	323,854	191,224	123,656	8,974
1942	495,524	226,221	239,170	30,133
1943	432,776	194,209	184,529	54,038
1944	480,708	173,408	248,924	58,376
1945	437,980	155,308	215,913	66,759
1946	424,894	144,164	211,206	69,420
1947	331,338	191,293	97,724	42,321
1948	325,386	124,547	125,262	75,577

a/ Does not include production not marketed.b/ Farm weight.c/ Small quantities, data not available.

Sources of data: Col. 1: Tables 1 and 2.

Col. 2: Col. 1 minus cols. 3 and 4.

Col. 3: National Canners Association, Canned Food Pack Statistics, 1934-1947. Washington, D. C. Canned pack converted to farm weight in pounds by multiplying cases of 24 No. 2's by 25. 1948: Preliminary.

Col. 4: 1937-1945. Western Canner and Packer. Yearbook 1947.

1946-1948. National Association of Frozen Food Packers. Frozen Food Pack Statistics: 1948, Washington, D.C. April 1949. Converted to farm weight from pack weight by factor of 1.818.

--

the first and second digits of the number  
represent the number of the month and  
the third and fourth digits represent the  
number of the day.

The first two digits of the number  
represent the number of the month and

TABLE 10

Utilization of California Spinach Production  
1933-1948

Calendar year	California total production	Utilization		
		Fresh	Canned	Frozen
		1	2	3
thousands of pounds <sup>a/</sup>				
1933	88,768	37,031	51,737	-- <sup>b/</sup>
1934	106,124	42,028	64,096	--
1935	133,950	57,873	76,077	--
1936	114,176	46,480	67,696	--
1937	117,672	43,872	73,727	73
1938	69,068	35,542	33,368	158
1939	87,940	39,487	47,519	934
1940	67,864	24,585	42,588	691
1941	75,110	20,781	53,602	727
1942	129,356	37,159	89,088	3,109
1943	96,760	18,884	70,151	7,725
1944	127,060	21,900	89,113	16,047
1945	122,082	23,120	83,664	15,298
1946	129,316	16,547	94,462	18,307
1947	83,818	38,283	42,017	3,518
1948	75,808	18,106	43,970	13,833

a/ Farm weight.b/ Small quantities, data not available.

## Sources of data:

Col. 1: Table 3.

Col. 2: Col. 1 minus cols. 3 and 4.

Col. 3: National Canners Association. Canned Food Pack Statistics, 1934-1947. Canners League of California, Washington, D.C., 1948. Canned pack converted to farm weight in pounds by multiplying cases of 24 No. 2's by 25.

Col. 4: 1937-1945. Western Canner and Packer. 1947 Yearbook.  
1946-47. Western Canner and Packer. 1948 Yearbook. Frozen pack converted to farm weight basis by factor of 1.818.  
1948. Western Frozen Food Processors Association. Calif. Frozen Fruit and Vegetable Pack for 1948. San Francisco, Feb. 1948.



TABLE 11  
Canned Spinach Pack in the United States  
1933-1948

Year	Total United States	California	New York	Maryland and Delaware	Missouri and Arkansas	Texas and Oklahoma	Other states	cases of 24 No. 2 cans		California as a per cent of to- tal United States pack
								cases of 24	No. 2 cans	
1933	3,179,080	2,069,465	142,054	656,772	78,866	130,318	101,605			65.1
1934	3,602,131	2,563,837	118,249	415,898	215,214	125,500	163,433			71.2
1935	4,318,001	3,043,089	148,157	437,187	168,832	95,527	425,209			70.5
1936	4,143,167	2,707,848	176,918	301,057	293,370	102,154	561,820			65.4
1937	6,136,051	2,949,081	232,339	500,380	1,717,817	274,254	462,180			48.1
1938	2,883,106	1,334,733	140,977	458,535	553,747	138,605	256,509			46.3
1939	4,000,476	1,900,752	131,640	479,456	982,772	180,006	325,850			47.5
1940	4,962,143	1,703,527	144,196	853,405	1,713,197	141,470	406,348			34.3
1941	4,946,253	2,144,096	270,042	387,366	1,153,045	256,533	735,171			43.3
1942	9,566,783	3,563,518	234,179	1,044,642	2,549,800	1,249,643	925,001			37.2
1943	7,381,142	2,806,056	71,680	329,569	2,956,282	733,600	483,955			38.0
1944	9,956,970	3,564,509	200,442	362,783	4,024,955	1,350,458	453,823			35.8
1945	8,636,529	3,346,556	156,765	703,328	3,179,787	657,801	592,292			38.7
1946	8,448,237	3,778,461	176,576	365,512	2,786,902	527,403	813,383			44.7
1947	3,908,951	1,680,660	15,912	203,339	1,203,407	561,535	244,098			43.0
1948	5,010,513	1,758,782								35.1

Source of data:

1933-1947--National Canners Association, Canned Food Pack Statistics. 1934-1947. Washington, D.C.

1948 --Preliminary.

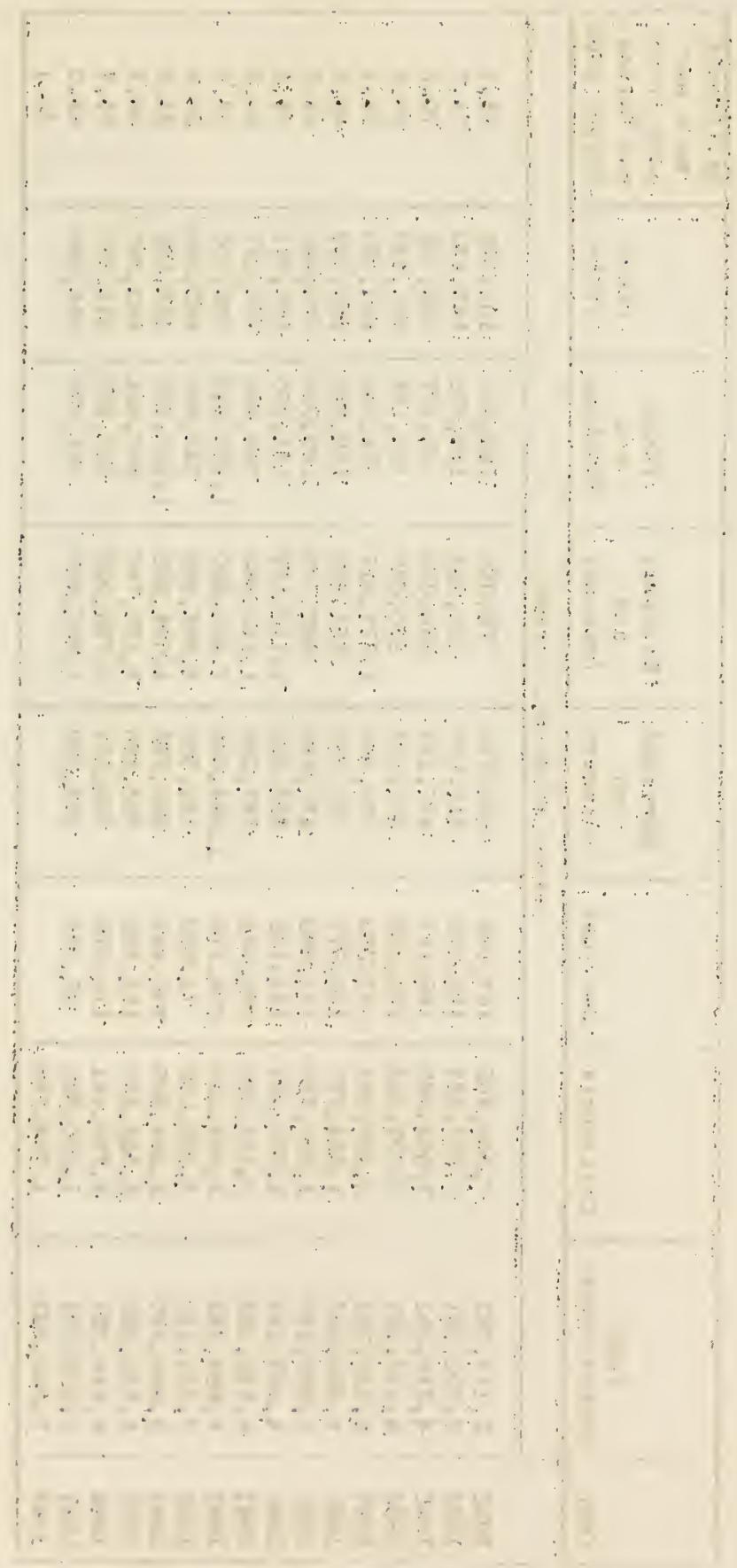


TABLE 12

United States and California Pack, Packers' Carry-over and Packers' Shipments  
of Canned Spinach  
1934-1949

Year beginning March 1	United States			California		
	Packers carry-over	Pack (calendar year)	Packers shipments	Packers carry-over	Pack (calendar year)	Packers shipments
	1	2	3	4	5	6
thousand cases 24 No. 2's						
1934-35	400	3,602	3,502	325	2,564	2,604
1935-36	500	4,318	4,418	285	3,043	3,094
1936-37	400	4,143	4,143	234	2,708	2,722
1937-38	400	6,136	4,636	220	2,949	2,432
1938-39	1,900	2,883	3,883	737	1,335	1,736
1939-40	900	4,000	4,300	335	1,901	2,029
1940-41	600	4,962	5,162	207	1,704	1,794
1941-42	400	4,946	5,046	116	2,144	2,032
1942-43	300	9,567	8,467	227	3,564	3,717
1943-44	1,400	7,381	8,781	74	2,806	2,758
1944-45	0	9,957	9,857	121	3,565	3,562
1945-46	100	8,637	8,137	124	3,347	3,348
1946-47	600	8,448	7,848	122	3,778	3,271
1947-48	1,200	3,909		630	1,681	1,967
1948-49				343	1,759	2,048
1949-50				54		

Sources of data:

- Col. 1 - 1934-35 to 1945-46. U.S. Bureau of Foreign and Domestic Commerce. Fruit and Vegetable Canning Industries. Washington, D.C. July 15, 1945, p. 95. (Industrial Series No. 15 Revised.)
- 1946-47 to 1947-48. U.S. Bureau of Foreign and Domestic Commerce. Industry Report--Canned Fruits and Vegetables. Washington, D.C. March 1947, p. 29.

Col. 2 - See Table 11.

Col. 3 - Cols. 1 + 2 minus col. 1 of the following year.

Col. 4 - Canners League of California. Uncatalogued releases (including bulletins and special bulletins) 1933-1948. 1949-50: Preliminary.

Col. 5 - Table 11.

Col. 6 - Cols. 4 + 5 minus 4 of the following year.

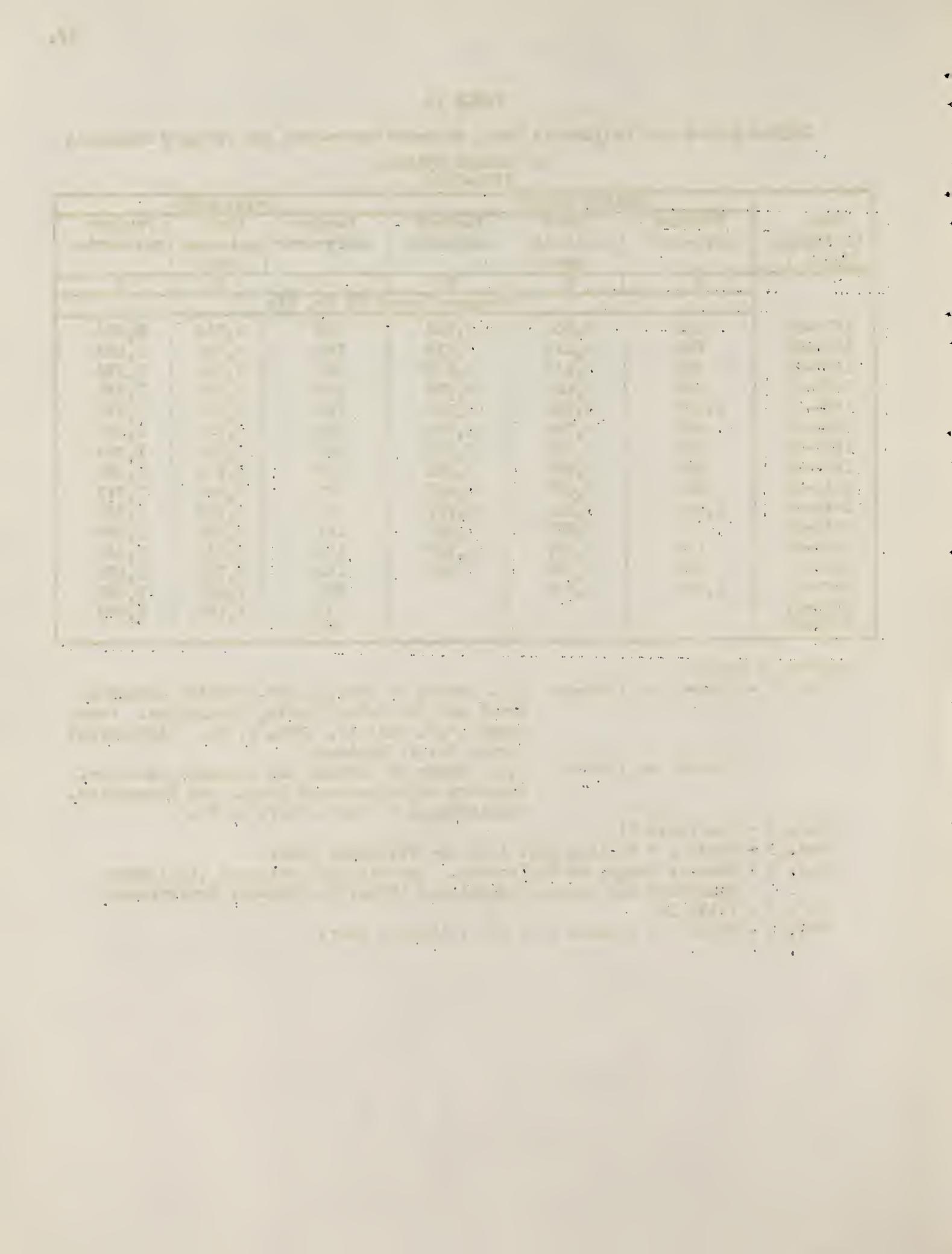


TABLE 13

## Annual Movement of California Canned Spinach, 1933-1948

Year	California pack standard cases <sup>a/</sup>	Total stock sold and unsold as of March 1 actual cases	Total stock sold and unsold as of March 1 <sup>b/</sup> standard cases <sup>c/</sup>	Movement (1 + 3 - 3 of following year) standard cases <sup>d/</sup>	Total stock sold and unsold as of January 1 <sup>b/</sup> actual cases	Total stock sold and unsold as of January 1 <sup>b/</sup> standard cases <sup>c/</sup>	Movement (1 + 6 - 6 of following year) standard cases <sup>a/</sup>
1	2	3	4	5	6	7	
1933	2,069,465	144,226	180,081	1,924,336	257,614	321,657	1,867,845
1934	2,563,837	262,647	325,210	2,603,817	422,611	523,277	2,523,143
1935	3,043,089	230,061	285,230	3,094,007	454,889	563,971	3,073,142
1936	2,707,848	184,251	234,312	2,722,003	417,487	530,918	2,631,109
1937	2,949,081	179,617	220,157	2,432,443	495,763	607,657	2,641,966
1938	1,334,733	611,651	736,795	1,736,490	759,399	914,772	1,673,498
1939	1,900,752	274,937	335,038	2,029,261	472,679	576,007	1,962,489
1940	1,703,527	174,433	206,529	1,794,349	434,350	514,270	1,979,455
1941	2,144,096	95,752	115,707	2,032,341	197,238	238,342	2,035,811
1942	3,563,518	182,921	227,462	3,717,466	278,751 <sup>e/</sup>	346,627	3,572,495
1943	2,806,056	57,357 <sup>e/</sup>	73,514	2,758,185	263,439 <sup>e/</sup>	337,650	2,808,925
1944	3,564,509	98,415 <sup>e/</sup>	121,385	3,562,307	271,429 <sup>e/</sup>	334,781	3,703,303
1945	3,346,556	104,056 <sup>e/</sup>	123,587	3,348,050	165,014 <sup>e/</sup>	195,987	3,319,740
1946	3,778,461	104,051 <sup>e/</sup>	122,093	3,270,836	189,878 <sup>e/</sup>	222,803	3,358,940
1947	1,680,660	513,762	629,718 <sup>d/</sup>	1,966,907	524,047	642,324 <sup>d/</sup>	1,688,654
1948	1,758,782	266,284	343,471	2,048,154	517,525	634,330 <sup>d/</sup>	
1949			54,099				

<sup>a/</sup> In terms of 24 No. 2's.<sup>b/</sup> Actual cases converted to standard cases by use of computed annual conversion factors.<sup>c/</sup> Exclusive of goods that have been sold to the government.<sup>d/</sup> Actual cases X 1.2257 (average ratio 1933-1946).

Sources of data: Col. 1: 1933-1947; see sources listed in table 11. 1948; Canners League of California.

Col. 2 and 5: Canners League of California. Uncatalogued mimeographed releases (including bulletins and special bulletins). 1930-1948.

Col. 3: Same as table 12, col. 4.



TABLE 14

Carlot Shipments of Fresh Spinach by States,  
Including Boat Shipments Reduced to Carlot Equivalents,  
(Excluding Truck Shipments)  
1920-1947

Year	Total U. S.	California	Texas	Virginia	Colorado	Arkansas	All other states
1920	3,089	429	909	1,420	--	0	331
1921	4,954	51	1,484	2,759	--	0	660
1922	5,205	303	1,518	2,439	--	2	943
1923	7,747	455	2,382	3,435	--	2	1,473
1924	7,537	94	3,123	3,035	3	3	1,279
1925	7,955	303	3,442	2,691	18	24	1,477
1926	10,494	283	4,924	3,362	10	50	1,865
1927	9,610	398	4,291	3,388	8	45	1,480
1928	10,365	391	5,395	2,968	6	182	1,423
1929	10,317	437	6,007	2,540	67	90	1,176
1930	9,823	170	7,082	1,757	28	153	633
1931	9,001	75	6,502	1,422	50	107	845
1932	8,995	108	6,959	1,422	27	63	416
1933	8,090	87	5,681	1,750	25	67	480
1934	7,685	15	5,570	1,270	19	149	662
1935	6,107	135	3,843	1,642	36	138	313
1936	7,972	20	5,650	1,590	43	265	404
1937	7,788	16	5,196	2,044	45	158	329
1938	6,835	5	4,392	1,825	55	65	493
1939	6,329	4	4,551	1,320	59	123	472
1940	5,970	2	4,158	1,205	51	91	463
1941	5,615	1	4,618	551	135	37	273
1942	6,226	1	5,127	500	197	86	315
1943	6,774	43	4,877	628	341	273	612
1944	6,358	33	4,739	668	332	212	374
1945	5,582	25	4,300	371	413	60	413
1946	4,824	27	3,602	577	235	61	322
1947	4,052	25	3,034	340	243	99	311

## Sources of data:

- 1920-1932: U.S. Bureau of Agricultural Economics. Carlot Shipments and Unloads of Important Fruits and Vegetables. Statistical Bulletins 7, 8, 9, 19, 23 27, 30, 35, 38, 42, 46. 1913-1932.
- 1933-1942: U.S. Food Distribution Administration. Carlot Shipments of Fruits and Vegetables. 1925-1942.
- 1943-1947: U.S. War Food Administration, Office of Distribution. Carlot Shipments of Fruits and Vegetables by Commodities, States, and Months. 1943-1947.



TABLE 15

Fresh Spinach Consumption in the United States  
1933-1947

Calendar year	Spinach available for fresh consumption	Estimated fresh consumption <sup>a</sup>	Population continental United States <sup>b</sup>	Estimated consumption of fresh spinach	Per-capita consumption relative	
					1	
					2	
		1,000 pounds		3	4	
				lbs. per capita	1935-1939=100	
1933	227,261	197,717	125,578,763	1.57	87.7	
1934	245,339	213,444	126,373,773	1.69	94.4	
1935	230,508	200,542	127,250,232	1.58	88.3	
1936	303,949	264,435	128,053,180	2.07	115.6	
1937	265,771	231,221	128,824,829	1.79	100.0	
1938	266,501	231,856	129,824,939	1.79	100.0	
1939	258,075	224,525	130,879,718	1.72	96.1	
1940	213,644	185,870	131,954,144	1.41	78.8	
1941	191,224	166,365	133,060,045	1.25	69.8	
1942	227,221	196,812	133,770,500	1.47	82.1	
1943	194,209	168,962	133,966,319	1.26	70.4	
1944	173,408	150,865	132,552,005	1.14	63.7	
1945	155,308	135,118	131,975,774	1.02	57.0	
1946	144,164	125,423	139,893,406	.90	50.3	
1947	191,293	166,425	143,382,000	1.16	64.8	

a/ Computed on a basis of 13 per cent normal marketing losses.

b/ Estimated population on July 1 excluding armed forces overseas.

Sources of data: Col. 1: Table 9.

Col. 3: U. S. Department of Commerce. Statistical Abstract of the United States, 1948. Tables 7 and 8. Washington, D. C.



TABLE 16

United States Season Average Price Received by Farmers  
for Fresh Market Spinach, by Seasonal Types  
1918-1948

Calendar year	Winter	Spring	Summer	Early Fall	Late Fall
dollars per bushel					
1918	.76	.55	--	--	.60
1919	.80	.60	--	.20	.60
1920	.72	.60	--	.69	.70
1921	.55	.69	--	.77	.85
1922	.62	.80	--	.58	.70
1923	.49	.66	.50	.54	.80
1924	.61	.60	.50	.54	.60
1925	.61	.73	.40	.54	.70
1926	.46	.67	.45	.52	.70
1927	.47	.61	.35	.62	.92
1928	.48	.67	.45	.70	.67
1929	.37	.57	.69	.64	.64
1930	.55	.42	.52	.58	.60
1931	.38	.41	.49	.54	.60
1932	.45	.51	.42	.43	.41
1933	.35	.39	.36	.43	.44
1934	.38	.44	.44	.46	.62
1935	.53	.56	.55	.63	.48
1936	.33	.51	.57	.52	.40
1937	.34	.42	.34	.39	.34
1938	.34	.35	.45	.49	.38
1939	.33	.40	.44	.35	.43
1940	.56	.38	.45	.46	.37
1941	.49	.46	.47	.71	.63
1942	.54	.55	.68	.88	.89
1943	.97	.96	.95	.95	.93
1944	.74	.82	.84	1.19	.81
1945	.84	.99	.95	.94	.91
1946	.84	.74	.76	.78	.65
1947	1.02	.75	.88	.88	.86
1948	1.00	.87	.84	.86	.87

Source of data: See sources listed in table 1.



TABLE 17

Season's Average Spinach Prices Received by California Farmers, 1918-1948

Calendar year	Fresh market	Processing <sup>a/</sup>	Weighted average farm price for fresh market and processing
	dollars per bushel	dollars per ton	dollars per ton
1918	.50	—	
1919	.45	23.45	30.85
1920	.50	24.92	33.19
1921	.55	19.71	27.97
1922	.50	19.56	28.40
1923	.35	20.35	23.44
1924	.35	17.61	23.69
1925	.30	17.64	21.08
1926	.25	16.15	18.53
1927	.30	14.50	18.46
1928	.52	16.02	19.95
1929	.40	15.35	18.20
1930	.43	14.30	22.33
1931	.39	13.21	22.28
1932	.40	10.84	24.84
1933	.35	9.98	18.05
1934	.39	11.03	20.45
1935	.45	11.20	22.02
1936	.45	10.85	21.53
1937	.50	13.35	24.36
1938	.45	11.95	27.10
1939	.37	11.85	22.81
1940	.45	14.45	30.00
1941	.45	17.10	30.46
1942	.45	21.00	26.42
1943	.85	23.90	43.84
1944	.70	26.50	37.90
1945	.80	26.10	39.51
1946	.65	26.50	36.44
1947	.65	27.30	41.78
1948	.65	25.00	43.56

<sup>a/</sup> Most of these prices are on the basis of delivery of the product to the local processing plant or loading platform.

Source of data: See sources listed in table 1.

199-199. *Leucostethus* sp. nov. (Figs. 199-200)

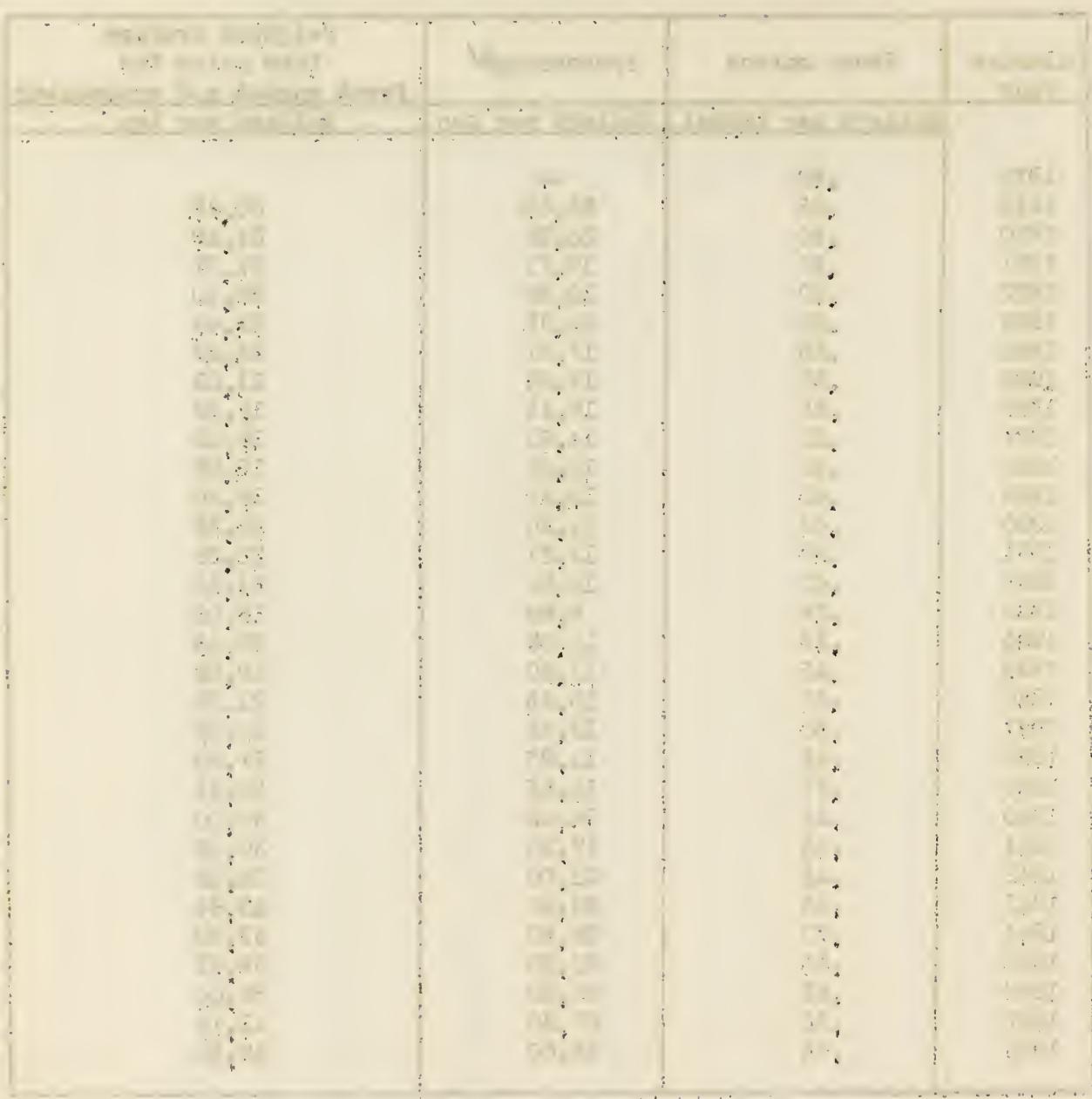


FIG. 199. Dorsal view of *Leucostethus* sp. nov. (holotype). FIG. 200. Ventral view of same.

TABLE 18

Spinach: Farm Value Per Acre, United States,  
California, Texas and United States Excluding California  
1919-1948

Year	United States			California			Texas			U.S. excluding Calif.		
	Total value thousand dollars	Total acreage acres	Farm value dollars per acre	Total value thousand dollars	Total acreage acres	Farm value dollars per acre	Total value thousand dollars	Total acreage acres	Farm value dollars per acre	Total value thousand dollars	Total acreage acres	Farm value dollars per acre
1919	2,909	13,380	217	662	3,920	169	1,482	4,800	309	2,247	9,460	238
1920	3,388	15,740	215	723	3,750	193	1,349	5,620	240	2,665	11,990	222
1921	4,250	24,730	172	835	6,060	138	1,158	8,320	139	3,415	18,670	183
1922	5,012	25,710	195	1,107	6,790	163	1,494	8,210	182	3,905	18,920	206
1923	5,601	32,040	175	1,352	9,710	139	1,274	9,440	135	4,249	22,330	190
1924	6,162	32,770	188	1,372	10,420	132	2,055	8,700	236	4,790	22,350	214
1925	7,034	41,420	170	785	11,500	68	3,088	14,440	214	6,249	29,920	209
1926	6,393	44,720	143	1,071	11,340	94	2,050	16,820	122	5,322	33,380	159
1927	7,123	50,550	141	1,203	12,200	99	2,100	19,450	108	5,920	38,350	154
1928	7,560	59,940	126	1,440	13,340	108	2,304	25,600	90	6,120	46,600	131
1929	7,904	71,860	110	1,816	17,190	106	1,890	28,650	66	6,088	54,670	111
1930	6,901	55,480	124	1,057	9,920	107	3,357	25,060	134	5,844	45,560	128
1931	6,571	59,720	110	915	7,550	121	2,688	27,850	97	5,656	52,170	108
1932	6,540	58,110	113	707	5,870	120	2,975	30,800	97	5,833	52,240	112
1933	5,260	77,020	68	801	9,890	81	2,002	44,000	46	4,459	67,130	66
1934	6,326	76,260	83	1,085	15,640	69	2,233	35,500	63	5,241	60,620	86
1935	7,746	77,150	100	1,475	15,710	94	2,192	36,000	61	6,271	61,440	102
1936	7,349	108,540	68	1,229	15,140	81	1,862	54,400	34	6,120	93,400	66
1937	6,912	105,460	66	1,433	19,120	75	2,046	54,000	38	5,479	86,340	63
1938	6,116	92,510	66	936	12,270	76	1,536	48,000	32	5,180	80,240	65
1939	6,120	83,610	73	1,003	10,860	92	1,671	41,400	40	5,117	72,750	70
1940	7,686	86,240	89	1,018	12,740	80	2,887	37,900	76	6,668	73,500	91
1941	7,705	82,990	93	1,144	10,440	110	2,630	39,900	66	6,561	72,550	90
1942	13,479	117,020	115	1,709	18,090	94	3,792	48,800	78	11,770	98,930	119
1943	18,656	113,180	165	2,121	12,930	164	5,572	43,400	128	16,535	100,250	165
1944	16,970	117,450	144	2,408	14,930	161	4,905	48,400	101	14,562	102,520	142
1945	17,570	102,180	172	2,412	14,420	167	4,847	41,500	117	15,158	87,760	173
1946	14,632	103,470	141	2,356	13,990	168	4,386	43,000	102	12,276	89,480	137

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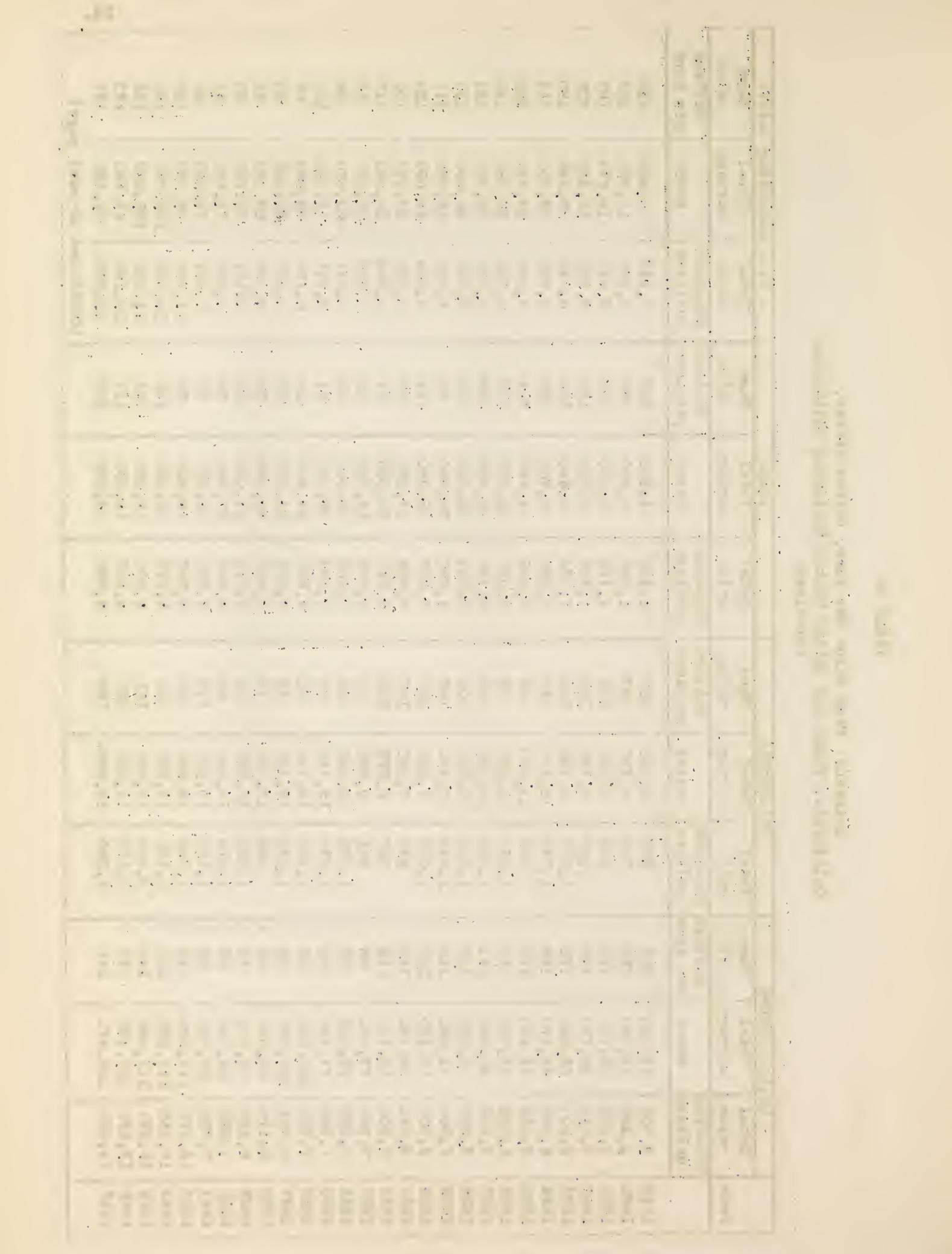


Table 18 continued.

Year	United States			California			Texas			U.S. excluding Calif.		
	Total value thousand dollars	Total acreage	Farm value dollars per acre	Total acreage thousand dollars	Farm value dollars per acre	Total acreage thousand dollars	Farm value dollars per acre	Total acreage thousand dollars	Farm value dollars per acre	Total acreage thousand dollars	Farm value dollars per acre	
1947	13,301	86,040	155	1,751	10,810	162	5,047	39,400	128	11,550	75,230	154
1948	13,282	81,010	164	1,651	9,400	176	4,425	36,500	121	11,631	71,610	162

Source of data: See sources listed for table 1.

